## **AMENDMENTS TO THE CLAIMS**

This listing of the claims will replace all prior versions and listings of the claims in the application.

Claims 1-43 (Canceled)

Claim 44 (Original) A plectrum for a string instrument having a plurality of conductive strings, said plectrum including:

a non-conductive body defining a gripping portion and a plucking portion; and

a conductive tip protruding just beyond an edge of said plucking portion, an outer

surface of said tip being sized so as to fleetingly contact a string of said instrument when said

string is plucked by said plucking portion, said tip further being capable of operative

association with electronic monitoring circuitry adapted to provide a triggering signal each

time the tip contacts any one of said strings.

Claim 45 (Original) The plectrum according to claim 44, wherein said tip is

electrically connected to a first wire embedded within said body, said first wire being, in turn,

electrically connected to a second wire external of said body and extending from a point on

said body remote of said plucking portion.

Claim 46 (Original) The plectrum according to claim 44, wherein said tip

protrudes from an outer edge of said plucking portion by no more than 1 mm.

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Claim 47 (Original) The plectrum according to claim 44, wherein a

perimeter length of said tip is no longer than 8 mm.

Claim 48 (Original) The plectrum according to claim 44, wherein a width of

said tip is less than a width of said body.

Claim 49 (Original) The plectrum according to claim 45, wherein said body

is generally a triangular shape, a region adjacent a first apex of said triangular shape defining

said plucking portion, and a region adjacent the other two apexes defining said gripping

portion, said tip being disposed at said first apex.

Claim 50 (Original) The plectrum according to claim 49, wherein said

second wire extends from, or adjacent to, one of said other apexes.

Claim 51 (Original) The plectrum according to claim 44, wherein an outer

edge of said tip is shaped to generally correspond to a shape of said outer edge of said

plucking region from which it extends.

Claim 52 (Original) The plectrum according to claim 44, wherein said

electronic monitoring circuitry is adapted to detect the initial contact between the tip and the

string and to use said initial contact as the basis for the triggering signal.

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Claim 53 (Currently Amended) A transmitter/receiver arrangement

adapted for use with a plectrum as defined in claim 44, said arrangement including a

transmitter having a signal generator electrically connectable to said tip such that, when said

tip fleetingly connects with said string during plucking, the transmitter produces a signal

which is detectable by receiver circuitry, said receiver circuitry being operatively associated

with said electronic monitoring circuitry so as to provide said triggering signal.

Claim 54 (Original) The transmitter/receiver arrangement according to claim

53, wherein said transmitter is mountable to a person playing the instrument, said transmitter

being electrically connectable to said plectrum by said second wire.

Claim 55 (Original) The transmitter/receiver arrangement according to claim

54, wherein said transmitter is disposed upon, or housed within, a strap mountable to a wrist

of said person.

Claim 56 (Original) The transmitter/receiver arrangement according to claim

55, wherein said strap includes means to house or mount a battery to power said radio

frequency signal generator.

Claim 57 (Original) The transmitter/receiver arrangement according to claim

53, wherein said string is electrically connected to an instrument-ground, which is, in turn,

electrically connected to said receiver.

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Claim 58 (Original) The transmitter/receiver arrangement according to claim

53, wherein said signal generator is a radio frequency signal generator capable of producing a

waveform at a carrier frequency, and said receiver circuitry is adapted to compare the carrier

frequency with a local oscillator signal so as to only acknowledge a contact between the tip

and the string once an intermediate frequency, which is a difference between the carrier

frequency and the local oscillator frequency, is detected by the receiver, thereby reducing the

likelihood of false triggering due to outside interference from radio frequency noise.

Claim 59 (Original) The transmitter/receiver arrangement according to claim

58, wherein both said carrier frequency and a frequency of said local oscillator signal are

within the range 100 KHz to 30 MHz.

Claim 60 (Original) The transmitter/receiver arrangement according to claim

58, wherein said instrument-ground is electrically connected to a receiver-ground, said

connection effectively forming an electrical short between said grounds at audio frequencies,

and a first tuned receiver between said grounds which is broadly tuned at said carrier

frequency.

Claim 61 (Original) The transmitter/receiver arrangement according to claim

59, wherein said connection is an inductor and a capacitor wired in parallel between the

instrument-ground and the receiver-ground.

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Claim 62 (Original) The transmitter/receiver arrangement according to claim

60, wherein, after passing through said connection, the radio frequency signal is amplified.

Claim 63 (Original) The transmitter/receiver arrangement according to claim

60, wherein said receiver circuitry includes a selective band pass filter tuned at the

intermediate frequency.

Claim 64 (Original) The transmitter/receiver arrangement according to claim

62, wherein said local oscillator signal is derived from a clock circuit of a microprocessor or

from a frequency crystal.

Claim 65 (Original) The transmitter/receiver arrangement according to claim

53, wherein said electronic monitoring circuitry includes a detector circuit adapted to output

an envelope of the intermediate frequency component of the radio frequency signal, said

envelope having brief pulses substantially corresponding to the period of time for which the

plectrum tip is in contact with the string.

Claim 66 (Original) The transmitter/receiver arrangement according to claim

65, wherein said brief pulses are time-stretched so as to provide a modified signal having

time-stretched pulses which would not be missed by a microprocessor.

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Claim 67 (Original) The transmitter/receiver arrangement according to claim

66, wherein said electronic monitoring circuitry includes a microprocessor adapted to receive

said modified signal and perform an analog-to-digital conversion thereto.

Claim 68 (Original) The transmitter/receiver arrangement according to claim

67, wherein said microprocessor is further adapted to detect positive transients in said

modified signal and to generate said triggering signal by correlating each of said positive

transients with an initial contact of the plectrum tip with the string.

Claim 69 (Original) The transmitter/receiver arrangement according to claim

53, wherein said receiver circuitry is adapted to store and output a value corresponding to a

maximum amplitude of an audio signal from said instrument each time the plectrum contacts

the string.

Claim 70 (Original) The transmitter/receiver arrangement according to claim

69, wherein said electronic monitoring circuitry includes a microprocessor adapted to

measure the stored value and to output a digital value corresponding to the amplitude.

Claim 71 (Original) A transmitter adapted for use with a plectrum as defined

in claim 44, said transmitter having a radio frequency signal generator electrically

connectable to said tip such that, when said tip fleetingly connects with said string during

plucking, the tip injects a radio frequency signal into the string.

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Claim 72 (Original) A receiver adapted for use with the transmitter as

defined in claim 71, including receiver circuitry being tuned to said radio frequency so as to

detect the radio frequency signal injected into the string, the receiver being operatively

associated with said electronic monitoring circuitry so as to provide said triggering signal.

Claim 73 (Original) A signal processing apparatus in combination with a

string instrument being plucked by the plectrum defined in claim 44, wherein said signal

processing apparatus is adapted to process an audio signal derived from said string

instrument, said apparatus including:

a first input to receive said audio signal;

a second input to receive a triggering signal which includes a plurality of

triggering pulses, each indicative of a plucking of any of said strings by said plectrum tip;

signal processing circuitry adapted to perform a plurality of different processes,

each process modifying the audio signal, said circuitry being electrically connected to said

first and second inputs, and wherein said signal processing circuitry is adapted to vary the

particular process used to modify the audio signal according to a predefined relationship with

said triggering signal; and

an output electrically connected to said signal processing circuitry for outputting a

modified audio signal.

Claim 74 (Original) The signal processing apparatus according to claim 73,

wherein said predefined relationship is such that the process is varied each time an integral

number of triggering pulses are received by the signal processing circuitry.

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Claim 75 (Original) The signal processing apparatus according to claim 74,

wherein said integral number is one.

Claim 76 (Original) The signal processing apparatus according to claim 73,

wherein, during a transition from a first process to a second process, the first process is

progressively faded out and the second process is simultaneously progressively faded in.

Claim 77 (Original) The signal processing apparatus according to claim 76,

wherein said transition commences upon receipt of a triggering pulse such that each transition

is initiated substantially at each moment the tip first contacts the plectrum during plucking.

Claim 78 (Original) The signal processing apparatus according to claim 73,

wherein at least one of the operative characteristics of one or more of said processes is

variable dependent upon a maximum amplitude of the audio signal each time the plectrum

contacts a string.

Claim 79 (Original) The signal processing apparatus according to claim 73,

wherein said plectrum communicates with said signal processing apparatus via a transmitter

and/or receiver arrangement, said arrangement including a transmitter having a signal

generator electrically connectable to said tip such that, when said tip fleetingly connects with

said string during plucking, the transmitter produces a signal which is detectable by receiver

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circuitry, said receiver circuitry being operatively associated with said electronic monitoring

circuitry so as to provide said triggering signal.

Claim 80 (Original) The signal processing apparatus according to claim 78,

further comprising a transmitter/receiver arrangement,

including a transmitter having a signal generator electrically connectable to said

tip such that, when said tip fleetingly connects with said string during plucking, the

transmitter produces a signal which is detectable by receiver circuitry, said receiver circuitry

being operatively associated with said electronic monitoring circuitry so as to provide said

triggering signal;

wherein said receiver circuitry is adapted to store and output a value

corresponding to a maximum amplitude of an audio signal from said instrument each time the

plectrum contacts the string; and

said electronic monitoring circuitry includes a microprocessor adapted to measure

the stored value and to output a digital value corresponding to the amplitude,

wherein the signal processing apparatus includes a third input to receive said

digital value, said third input being adapted to feed said value to the signal processing

circuitry.

Claim 81 (Original) The signal processing apparatus according to claim 80,

wherein the second and third inputs comprise a single input which is adapted to receive and

decode an information stream having information relating to both the triggering and the

maximum amplitude.

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Claim 82 (New) A transmitter/receiver arrangement adapted for use with

a plectrum, said arrangement including a transmitter having a signal generator electrically

connectable to a tip of the plectrum such that, when said tip fleetingly connects with a string

of a string instrument during plucking, the transmitter produces a signal which is detectable

by receiver circuitry, said receiver circuitry being operatively associated with electronic

monitoring circuitry so as to provide a triggering signal, wherein said signal generator is a

radio frequency signal generator capable of producing a waveform at a carrier frequency, and

said receiver circuitry is adapted to compare the carrier frequency with a local oscillator

signal so as to only acknowledge a contact between the tip and the string once an

intermediate frequency, which is a difference between the carrier frequency and the local

oscillator frequency, is detected by the receiver, thereby reducing the likelihood of false

triggering due to outside interference from radio frequency noise.

Claim 83 (New) The transmitter/receiver arrangement according to claim

82, wherein both said carrier frequency and a frequency of said local oscillator signal are

within the range 100 KHz to 30 MHz.

Claim 84 (New) The transmitter/receiver arrangement according to claim

82, wherein said instrument-ground is electrically connected to a receiver-ground, said

connection effectively forming an electrical short between said grounds at audio frequencies,

and a first tuned receiver between said grounds which is broadly tuned at said carrier

frequency.

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Claim 85 (New) The transmitter/receiver arrangement according to claim

83, wherein said connection is an inductor and a capacitor wired in parallel between the

instrument-ground and the receiver-ground.

Claim 86 (New) The transmitter/receiver arrangement according to claim

84, wherein, after passing through said connection, the radio frequency signal is amplified.

Claim 87 (New) The transmitter/receiver arrangement according to claim

84, wherein said receiver circuitry includes a selective band pass filter tuned at the

intermediate frequency.

Claim 88 (New) The transmitter/receiver arrangement according to claim

86, wherein said local oscillator signal is derived from a clock circuit of a microprocessor or

from a frequency crystal.